No. 1581

INDEX TO VOLUME 38

NOTE

1	Names of authors and discussers, also deceased members preceding an obituary notice, are	in
	caps and small caps. A discusser is distinguished from the author of a paper by (D), place	ed
	after the name of the paper.	

2 Titles of papers, where placed after the name of the author, and appearing in their exact form, are in italic. Papers are indexed not under their titles but under their subject-matter.

	PAGE
Air, flow through orifices	799
AKIMOFF, N. W. Dynamic Balance	367
ALBREE, CHESTER BIDWELL, obituary	1329
ALDEN, JOHN D. Impact tube (D)	794
ALFORD, L. P. Organizing for industrial preparedness (D)	62
Allison, Robert, obituary	1329
ALMY, DARWIN, obituary	1330
Analysis, graphical, in design of power plant	687
natural gas	319
producer gas	961
Annual meeting (1915, p. 11), 1916	449
Appraisal value and perpetual-inventory value	1285
Appraisals by short methods	1229
Armstrong, P. A. E. Pencil electrode welding (D)	1146
Azbe, Victor J. Power-Plant Efficiency	717
,	
Babcock & Wilcox Co., heat-transmission test	428
BAILEY, E. G. Flow of air and steam through orifices (D)	832
BAKER, A. J. Service work for employees (D)	1222
BAKER, CHARLES WHITING. Industrial and public-utility valuation. (D).	1278
Organizing for industrial preparedness (D)	55
Pulverized fuel for locomotives (D)	1090
	367
Balancing	371
machine, dynamic	
BALDWIN, A. T. Power-plant efficiency (D)	754
Banana unloaders.	209
BANCEL, PAUL A. Proportioning of surface condensers (D)	482
BARBOUR, PERCY E. Organizing for industrial preparedness (D)	61
BARKER, HARRY. Accurate appraisals by short methods (D)	1242
Perpetual-inventory value and appraisal value (D)	1291
BARKLEY, J. F. Transmission of heat in boilers (D)	436
BARNABY, CHARLES W. Marine safety valves (D)	1115
1373	

	PAGE
BARR, JOHN H. Organizing for industrial preparedness (D)	57
BARRUS, GEORGE H. Testing of house-heating boilers (D)	505
Barth, Carl G. Perpetual-inventory value and appraisal value (D)	1290
Standardization of Machine Tools	895
Basford, George M. Pulverized fuel for locomotives (D)	1089
BATCHELDER, A. F. Mechanical Design of Electric Locomotives	1021
BAXTER, W. C. Deviation of natural gas from Boyle's law (D)	323
Beehive coke ovens, waste-heat boilers for	634
BEEKMAN, JOHN VANDERVEER, obituary	1331
BEERS, R. L. Testing of house-heating boilers (D)	514
BEISTLE, C. P. Photographic studies of spontaneous ignition (D)	852
BELCHER, THOMAS HATTERSLEY, obituary	1331
Bell, John E. Transmission of heat in boilers (D)	439
Bemis, Edward W. Accurate appraisals by short methods (D)	1242
Productive capacity and industrial property (D)	1313
Bernard, H. B. Specific heats and viscosity of natural gas (D)	988
Berry, O. C. A Gas Producer for Bituminous Fuel.	923
BIERBAUM, CHRISTOPHER H. Pencil electrode welding (D)	1145
Photographic studies of spontaneous ignition (D)	853
Bigelow, Charles H. Heat transmission through sash (D)	889
Vibration in textile-mill buildings (D)	875
Program Example C. Management of singuity (D)	397
BINGHAM, EUGENE C. Measurement of viscosity (D)	923
Bituminous fuel, gas producer for	926
Blower, for bituminous gas producer	
Boiler code, A.S.M.E., cited	506
down-flow type	1140
heat transmission in	407
joints, pencil electrode method of welding	1141
Niclausse1130,	
stationary, pulverized fuel for	1060
Talbot	1117
waste-heat	599
Boughton, Judson H., obituary	1332
Boyle's law, deviation of natural gas from	, 285
Brake, car, clasp type of	1005
Breckenridge, L. P. The Testing of House-Heating Boilers	491
Brinton, Willard C. Port of New Orleans, mechanical equipment at (D)	233
Productive capacity and industrial property (D)	1312
Broido, B. N. Waste-heat utilization (D)	651
Brophy, J. H. Organizing for industrial preparedness (D)	64
Brown, J. Linwood, obituary	1332
Bryson T. A. Dynamic balance (D)	380
Buck, W. A. An Investigation of the Internal-Combustion Engine as Applied	
to Traction Engines	995
Buckingham, Edgar. Specific heats and viscosity of natural gas (D)	992
Impact tube (D).	794
Burden wrought iron, analysis and tests	1166
Burner, oil, for Talbot boiler	1126

INDEX 1375

Burrell, G. A. Deviation of natural gas from Boyle's law (D)	PAGE 319
BURTON, T. L. Clasp Brakes for Heavy-Passenger-Equipment Cars	1005
Buss, William Laing, obituary	1333
,	2000
Cable, wrought iron chain, heat treatment of	1159
CAIRD, ROBERT, obituary	1333
CAMPBELL, JAMES A. Organizing for industrial preparedness (D)	57
CAPLES, MAJOR W. GOFF. Organizing for industrial preparedness (D)	64
Car journal, effect of braking force on	1007
passenger, clasp brake for	1005
CARDULLO, FORREST E. Transmission of heat in boilers (D)	433
CARPENTER, ALPHONSO H., obituary	1335
CARPENTER, R. C. Talbot boiler (D)	1134
CARR, C. A. Talbot boiler (D)	1132
CARY, ALBERT A. Design and operation of steam power plant (D)	713
Marine safety valves (D)	1116
Power-plant efficiency (D)	754
Talbot boiler (L)	1129
CATHCART, W. L. The Development of Our Fleet and Naval Stations	1157
Cement kilns, waste-heat boilers for	613
Census, industrial	5
Centrifugal pumps, low-lift	130
Chain, power-forged, manufacture of	1162
wrought-iron, Government specifications for	1166
CHAPMAN, W. B. Gas producer for bituminous fuel (D)	956
Charcoal, spontaneous ignition of	850
Chart, idleness expense	1304
systems, requirements for	1214
CHENEY, H. B. Productive capacity and industrial property (D)	1310
Christie, A. G. Flow of air and steam through orifices (D)	832
Waste-heat utilization (D)	647
Cincinnati Milling Machine Co., employees' service department at	1222
CLARK, GEORGE H. Steam Safety Valves	519
Clasp brakes for passenger cars	1005
Coal-handling equipment, Port of New Orleans	215
-pulverizing plant	1066
Cobb, W. R. Heat transmission through sash (D)	875
Cobleigh, H. R. Power-plant efficiency (D)	753
COBURN, F. G. Heat Treatment of Wrought Iron Chain Cable	1159
Code for house-heating boiler test	499
of safety standards for cranes	1205
Coes, Harold V. Organizing for industrali preparedness (D)	60
Coke oven, beehive, waste-heat boiler for	634
Cole, F. J. Productive capacity and industrial property (D)	1315
COMLY, GEORGE NEWBOLD, obituary	1335
Compressed air, measuring by pitot and venturi tubes	799
Condenser, surface, proportioning of	467
test of large	672

	PAGE
CONNET, FREDERICK N. Flow of air and steam through orifices (D)	831
Impact tube (D)	793
Conveyors for unloading vessels	213
COOLEY, M. E. Industrial and public-utility valuation (D)	1279
Cooperation of workman	1220
Copper furnaces, waste-heat boilers for	625
Corning, C. W. Pulverized fuel for locomotives (D)	1091
Corrosion in welding	1151
Cost of locomotives	1027
of operating boiler	705
of production	1305
Costs, power-plant operating	581
standard, of power	587
Cotton storage	236
Council, annual report, 1916	4
Cranes, code of safety standards for	1205
CREIGHTON, W. H. P. Capacity and economy of multiple evaporators (D).	108
Tests of Wood screw pumps cited	200
Crewson, G. G. Impact tubes (D)	794
CROMWELL, O. C. Clasp brakes (D)	1017
CROSBY, WM. W. Heat transmission through sash (D)	875
Productive capacity and industrial property (D)	1310
Vibration in textile-mill buildings (D)	890
CROSS, CHARLES N. Deviation of natural gas from Boyle's law (D)	308
Curtis marine steam turbines	545
Cutting metals, standard feeds for	901
DAVIS, GEORGE H. Mechanical equipment at Port of New Orleans (D).	239
DE LEEUW, ADOLPH L. Organizing for industrial preparedness (D)	63
Standardization of machine tools (D)	916
DE Pass, M. B. Capacity and economy of multiple evaporators (D)	103
DEAN, F. W. Tests of a 30,000-kw. steam turbine (D)	684
DEE, WM. V. Heat transmission through sash (D)	875
Dennis, Alfred L. P. Organizing for industrial preparedness (D)	59
Depreciation in appraisal work	1238
need for determining rate of	1287
standard rates of	1290
DEUTSCH, MAURICE. Vibration in textile-mill buildings (D)	890
Diesel engine, Werkspoor marine ¹	452
DINGER, H. C. Efficiency of Propulsive Machinery and Late Developments	
in Naval Engineering	543
DIXON, C. F. Design and operation of steam power plants (D)	713
Downflow type of steam boiler ²	1140
Drainage pumping plants, cost of operating	123
DuBrul, Napoleon, obituary	1335
DUGAN, CLAUDE M., JR., obituary	1336

See THE JOURNAL, March 1917, p. 201.
 See THE JOURNAL, March 1917, p. 207.

401	PAGE
Dynamic balance	367
balancing machine	371
EARHART, ROBERT F. Deviation of Natural Gas from Boyle's Law	285
The Ratio of Specific Heats and the Coefficient of Viscosity of Natural Gas	
from Typical Fields	979
Economizers, advantages of	724
Education in engineering.	453
Edwards, Jacques Henri, obituary	1336
EINSTEIN, ALFRED C., obituary	1337
Electric propulsion of ships.	533
locomotive vs. steam locomotive	1088
mechanical design of	1021
welding by induction method	1153
Elevators, grain, at New Orleans	219
ELY, THEODORE NEWELL, obituary	1337
EMERSON, HARRINGTON. Organizing for industrial preparedness (D)	63
Productive capacity and industrial property (D)	1313
Employees, cooperative service work for	1222
Engine, Straight Line, cited	1324
traction, internal-combustion	995
uniflow, advantages of	739
Werkspoor marine Diesel ¹	452
Engineer Reserve Corps, joint committee for	8
Engineering, education in	453
military, lectures on	32
naval, developments in	543
profession, public recognition of	5, 9
Ennis, Wm. D. Internal-combustion engines for tractors (D)	1003
Proportioning of surface condensers (D)	478
Specific heats and viscosity of natural gas (D)	989
Standardization of power-plant operating costs (D)	595
Ericsson (John) memorial.	33
Evans, W. A. Pulverized fuel for locomotives (D)	1091
Evaporators, multiple	67
salt-water	110
sugar-house	77
EVELETH, C. E. Mechanical design of electric locomotives (D)	1032
Executives, graphical control for, on exception principle	1213
All the property of the property of	1000
Factory mutual fire-insurance companies, appraisal methods of	1229
Feeds for cutting metals, standard	901
FESSENDEN, E. A. On the Transmission of Heat in Boilers	407
Fine, Bernard M. Organizing for industrial preparedness (D)	59
FINLAY, W. S., JR. Report upon Efficiency Tests of a 30,000-Kw. Cross-	1.731.3010
Compound Steam Turbine	655
Firebox stresses, locomotive.	1086
See THE JOURNAL, March 1917, p. 201.	

FISHER, FRANCIS P. Deviation of natural gas from Boyle's law (D) Establishing a Standard of Measurement for Natural Gas in Large	Page 324
	241
Quantities	364
FLAGG, S. B. Testing of house-heating boilers (D)	514
FLANDERS, RALPH E. Organizing for industrial preparedness (D)	63
FLORY, B. P. Clasp brakes (D)	1019
Flow of fluids measured by impact tube	761
of natural gas, measurement of	241
of water through pipe orifices	331
	1281
Fluids, flow through orifices.	331
flow measured by impact tube.	761
FORDYCE, JOHN R. Mechanical equipment at Port of New Orleans (D).	236
FOSTER, E. H. Tests of a 30,000-kw. steam turbine (D)	684
FOWLER, GEORGE L. Mechanical design of electric locomotives (D)	1035
Pulverized fuel for locomotives (D)	1086
Franchises, valuation of	1263
FRANCIS, CHARLES ALBERT, obituary	1338
Francis, Wm. H., obituary	1339
FRANK, L. K. Industrial and public-utility valuation (D)	1279
FRIEDLANDER, MAX. Testing of house-heating boilers (D)	511
FRY, LAWFORD H. Pulverized fuel for locomotives (D)	1092
Transmission of heat in boilers (D)	440
Fuel, bituminous, for gas producer	923
pulverized, for locomotives	1043
waste	717
GAGE, VICTOR R. Impact tube (D)	796
GANTT, H. L. Industrial and public-utility valuation (D)	1278
Management (D)	1227
Organizing for industrial preparedness (D)	60
Productive Capacity a Measure of Value of an Industrial Property	1303
GARLAND, C. M. Gas producer for bituminous fuel (D)	957
Testing of house-heating boilers (D)	505
Gas, natural — see natural gas.	
producer, commercial sampling and analysis	961
producer using bituminous fuel	3, 945
GASKELL, HOLBROOK, JR., tests cited	360
Geometric progression for cutting speeds	903
Gearing vs. electric drive for naval vessels	553
Gibbs, George. Mechanical design of electric locomotives (D)	1035
GIBSON, GEORGE H. Power-plant efficiency (D)	756
Proportioning of surface condensers (D)	482
GILBRETH, FRANK B. Graphical Control on the Exception Principle for	
Executives	1213
Mechanical equipment at Port of New Orleans (D)	235
Organizing for industrial preparedness (D)	55

INDEX	1379

	PAGE
GILMOUR, GEORGE, obituary	1339
Goldmark, Henry. Heat treatment of wrought-iron chain cable $(D)\dots$	1204
Goss, W. F. M. Standard of measurement for natural-gas supply (D)	281
GOULD, W. S. Power-plant efficiency (D)	75 5
Grain elevators, New Orleans	219
Graphical analysis in power-plant design and operation	687
control on the exception principle for executives	1213
GRAY, JOHN H. How Does Industrial Valuation Differ from Public-Utility	
Valuation?	1247
GREGORY, W. B. The Evolution of Low-Lift Pumping Plants in the Gulf	
Coast Country	115
Reclamation pumping plant (D)	577
GUCKEL, CHARLES H., obituary	1340
,,	
HAAR, SELBY. Standardization of power-plant operating costs (D)	597
HAAS, HARRY A., obituary	1340
HAIGHT, HARRY V. Organizing for industrial preparedness (D)	58
Standardization of machine tools (D)	917
HALE, HENRY A., JR. Vibration in textile-mill buildings (D)	890
HALE, ROBERT S. Industrial and public-utility valuation (D)	1281
Productive capacity and industrial property (D)	1315
HALL, KEPPELE. Productive capacity and industrial property (D)	1313
HAMILTON, CHESTER B., Jr. Organizing for industrial preparedness (D).	62
HARMAN, JOHN J. Low-lift pumping plants (D)	192
HARPER, JOHN L. Perpetual-inventory value and appraisal value (D)	1293
HARRINGTON, JOSEPH. Design and operation of steam power plants (D).	713
Power-plant efficiency (D)	748
HARRIS, HARRY E. Organizing for industrial preparedness (D)	59
HAYES, H. C. The Measurement of Viscosity and a New Form of Viscosimeter	383
HAYWARD, CARLE R. Heat treatment of wrought-iron chain cable (D)	1203
Hearne, Robert J. Perpetual-inventory value and appraisal value (D) .	1292
Heat transfer in surface condensation	467
transmission in boilers	407
in evaporators	71, 88
through various types of sash	857
treatment of wrought-iron chain cable	1159
Heating furnaces, waste-heat boilers for	639
house, testing boilers for	491
HEDRICK, E. R. On the Transmission of Heat in Boilers	407
HENDEE, EDWARD THOMAS, obituary	1341
HENDERSON, GEORGE R. Organizing for industrial preparedness (D)	65
HERSCHEL, WINSLOW H. Measurement of viscosity (D)	396
HERSEY, M. D. Measurement of viscosity (D)	400
HERTER, EMIL, obituary	1341
HESS, HOWARD DRYSDALE, obituary	1342
HICKSTEIN, E. O. Deviation of natural gas from Boyle's law (D)	315
HILL, D. M. Standard measure for natural-gas supply (D)	281
HILL, JOHN ALEXANDER, obituary	1342

	PAGE
Hill, John W., obituary	1343
HOAGLAND, F. O. Organizing for industrial preparedness (D)	57
Hodgkinson, Francis. Dynamic balance (D)	377
Tests of 30,000-kw. steam turbine (D)	
Hoisting apparatus, safety standards for	1205
Holmes (Joseph A.) memorial	34
Holmgren, Frederick W., obituary	1343
Hosmer, Amos Granville, obituary	
House-heating boilers, testing.	491
HOXIE, FREDERICK J. Heat transmission through sash (D)	875
Spontaneous Ignition Studied by Means of Photographic Plates	841
HUBBARD, ALLEN. Testing of house-heating boilers (D)	513
HUNT, ROBERT W. Tribute to John E. Sweet	1327
HUNTER, JOHN. Power-plant efficiency (D)	753
HUTCHINSON, CHARLES T. Reclamation pumping plant (D)	577
HYMANS, F. Dynamic balance (D)	379
IDELL, P. C. Power-plant efficiency (D)	753
Ignition, spontaneous, study of	841
Impact tube	761
Industrial census	5
inventory, national.	50
methods, valuation of	1297
preparedness	47
committee on	6
	1303
valuation of	1297
valuation different from public utility valuation	1247
Interborough Rapid Transit Co., 74th St. power station	688
Internal-combustion engine applied to traction engines	995
Inventories in appraisals	
Inventory, national industrial	50
Iron, Burden wrought, analysis and tests	1166
Irrigation pumps for rice	141
Jackson, Arthur C. Productive capacity and industrial property (D)	1315
Jackson, Wm. B. Organizing for industrial preparedness (D)	60
Power-plant efficiency (D)	752
JACOBUS, DAVID SCHENCK. Education in Engineering	453
	1
President, 1916, biography	6
JACQUES, WILLIAM HENRY, obituary	1344
JEWETT, A. C. Productive capacity and industrial property (D)	1315
Johnson, Harry Dibrow, Jr., obituary	1345
Joints, boiler, welding by pencil electrode method	1141
Jones, Milton F. Photographic studies of spontaneous ignition (D)	853
Journal, car, affected by braking force	1007

and the second s
1381

	PAGE
JUDD, HORACE. Experiments on Water Flow through Pipe Orifices	331
JUTHE, K. A. Organizing for industrial preparedness (D)	61
organism proparounces (1971)	-
Katte, E. B. Mechanical development of electric locomotives (D)	1034
Pulverized fuel for locomotives (D)	1086
KAVANAUGH, Wm. H. Impact tube (D)	794
KENDALL, HENRY P. Productive capacity and industrial property (D)	1314
Kent, William. Industrial and public-utility valuation (D)	1280
Organizing for industrial preparedness (D)	65
Productive capacity and industrial property (D)	1311
Proportioning of surface condensers (D)	477
Testing of house-heating boilers (D)	513
Transmission of heat in boilers (D)	434
Valuation of industrial properties (D)	1302
KERR, E. W. Capacity and Economy of Multiple Evaporators	67
KIRCHHOFF, CHARLES, obituary	1346
KIRKUP, HAROLD B., obituary	1347
Knowles, Morris. Accurate appraisals by short methods (D)	1242
Industrial and public-utility valuation (D)	1280
KOTHNY, G. S. Proportioning of surface condensers (D)	487
Kreisinger, Henry. Transmission of heat in boilers (D)	436
Land reclamation in Louisiana	115
Leavitt, Erasmus Darwin, obituary	1347
Leighton, Edward I., obituary	1350
LEWIS, G. W. The Measurement of Viscosity and a New Form of Viscosimeter	383
LEWIS, WARREN B. Waste-heat utilization (D)	648
LIBERMUTH, CLARK D. Capacity and economy of multiple evaporators	
(D)	107
Library, A.S.M.E., beginning of	1371
LIEB, JOHN W. Standardization of power-plant operating costs (D)	597
LIND, RAY E. Testing of house-heating boilers (D)	505
LIPE, CLIFFORD E., obituary	1350
LISLE, THOMAS ORCHARD. Illustrated Review of the Development of the	1000
	452
Werkspoor Marine Diesel Engine ¹	
Loading and unloading machinery	207
Locomotives, electric, mechanical design of	1022
large capacity of	1088
fireboxes of, stresses in	1086
pulverized fuel for	1043
Loeb, Leo. Capacity and economy of multiple evaporators (D)	110
LORING, E. J. Dynamic balance (D)	377
McAlpine, Bruce C., obituary	1351
McBridge Thomas C. Proportioning of surface condensers (D)	482
McCabe, John C. Pencil electrode welding (D)	1145
	1172
I See Tur LOURNAY March 1017 p. 201	- 4

ø

	PAGI
McIntosh, John E., obituary	1351
McKay, Charles W. Accurate appraisals by short methods (D)	1244
McKee, Arthur G. Organizing for industrial preparedness (D)	59
McKinney, Robert Cochran, obituary	1352
McSoley, Frank Bartlett, obituary	1352
MAAS, E. F. An Analysis of Marine Safety Valves, with Suggestions for	
Repairs and Improvements	1105
MACMICHAEL, R. F. Measurement of viscosity (D)	400
Machine tools, standardization of	895
MAHON, WILLIAM L'E., obituary	1353
MAIN, CHARLES T. Accurate appraisals by short methods (D)	1243
Management, topical discussion on	1220
Manning, J. H. Pulverized fuel for locomotives (D)	1095
Marine safety valves, analysis of	1105
MAUCK, VICTOR. Pencil electrode welding (D)	1152
Mechanical equipment, Port of New Orleans	207
Memorial, John Ericcson	33
Joseph A. Holmes.	34
MENGE, S. L. Low-lift pumping plant (D)	198
Metal cutting, standard feeds for	901
geometric progression for speeds in	903
Meters, air.	799
fluid	
natural-gas.	241
orifice	
pitot tube	
steam	799
Thomas electric (for gas)	
venturi	
viscosity	383
water	331
Military engineering lectures.	32
MILLER, FRED J. Organizing for industrial preparedness (D)	64
MILLER, SPENCER. Organizing for Industrial Preparedness	47
MILLHOLLAND, WILLIAM KNOX, obituary	1353
MILLIKEN, J. B. Productive capacity and industrial property (D)	1316
MIXSELL, AUSTIN D., obituary	1354
MORRIN, THOMAS. Reclamation pumping plant (D)	577
MORSE, JOHN G. Accurate Appraisals by Short Methods.	1229
Moss, Sanford A. Commercial sampling and analysis of producer gas	1220
(D)	977
Flow of air and steam through orifices (D)	
Specific heats and viscosity of natural gas (D)	833
The Impact Tube	989
	761
Water flow through pipe orifices (D)	364
MUHLFELD, JOHN E. Pulverized Fuel for Locomotives	1043
MULLANEY, JOHN E. Productive capacity and industrial property (D) . Multiple evaporators, capacity and economy of	1312 67
Multiple evaporators, capacity and economy of	07

INDEX	1999
	PAGE
National Council of Defense.	8
Natural gas, analyses of	319
deviation from Boyle's law	285
measurement of	241
specific heat and viscosity of	979
Naval Consulting Board.	5, 47
engineering, developments in .	543
vessels, performance of	547
Necrology	1329
Neff, Elmer H. Organizing for industrial preparedness (D)	64
Nelson, B. Stanley. Low-lift pumping plant (D)	201
New Orleans, mechanical equipment of Port of	207
Niclausse boiler	
Noble, G. C. The Design and Test of a Large Reclamation Pumping Plant.	563
Norris, H. M. Standardization of machine tools (D)	918
Oil burner for Talbot boiler	1126
engine — see internal-combustion engine.	
Open-hearth furnaces, waste-heat boilers for	602
Orifice meter for natural gas	5, 281
Orifices, bibliography on	363
flow of air and steam through	799
shape for measuring flow	4, 775
Orrok, George A. Capacity and economy of multiple evaporators (D)	106
The Proportioning of Surface Condensers	467
Overhead charges, standardization of	593
Parker, James W. Design and operation of steam power plants (D)	712
PARKER, JOHN C. Talbot boiler (D)	1135
The Downflow Type of Steam Boiler 1.	1140
Parr, P. H. Formula for coefficient of heat transmission, quoted	107
PARSONS, FRED A. Standardization of machine tools (D)	919
Parsons marine turbines.	545
	1005
Passenger cars, clasp brakes for	
PATCH, E. L. Heat Treatment of Wrought Iron Chain Cable	1159
PEABODY, E. H. Measurement of viscosity (D)	398
Organizing for industrial preparedness (D)	56
Peek, George Meredith, obituary	1355
Pell, Harry Shafer, obituary	1355
Pencil electrode method of welding	1141
PERKINS, G. H. Vibration in Textile-Mill Buildings	879
Perpetual-inventory value and appraisal value	1285
Perry, William Alfred, obituary	1356
PIEZ, CHARLES. The Relation Between Perpetual-Inventory Value and	
Appraisal Value	1285
¹ See THE JOURNAL, March 1917, p. 207.	

NAME OF TAXABLE PARTY.	PAGE
PIGOTT, R. J. S. Flow of air and steam through orifices (D)	831
Graphic Methods of Analysis in the Design and Operation of Steam	
Power Plants	687
Impact tube (D)	792
Power-plant efficiency (D)	751
Test of 30,000-kw. steam turbine (D)	677
Pipe orifices, water flow through	331
Pitot tube for measuring compressed air	799
for measuring natural gas	243
comparison with impact tube	761
PLUNKETT, CHARLES T. Photographic studies of spontaneous ignition	
(D)	853
POLAKOV, WALTER N. Design and operation of steam power plants (D).	712
Power-plant efficiency (D)	748
Standardization of Power-Plant Operating Costs	581
Valuation of Industrial Properties versus Valuation of Industrial	001
Methods	1297
POTTER, A. A. An Investigation of the Internal-Combustion Engine as	120.
Applied to Traction Engines	995
Power-plant efficiency	717
operating costs.	581
PRATT, ARTHUR D. The Utilization of Waste Heat for Steam-Generating	901
Purposes	599
PRENTICE, D. B. The Testing of House-Heating Boilers	491
PROCTOR, ALFRED WATERS, obituary	1356
Producer gas, commercial sampling and analysis.	
Public-utility valuation different from industrial valuation	1247
Pulverized fuel for locomotives.	1043
Pumps, centrifugal.	130
irrigation	~~~
	144
tube	203
Wood screw	200
One of the state o	1000
Quereau, C. H. Mechanical design of electric locomotives (D)	1028
Deletable Leading	101
Rainfall in Louisiana.	121
and run-off, relation between	566
RANDOLPH, L. S. Mechanical design of electric locomotives (D)	1035
Perpetual-inventory value and appraisal value (D)	1291
Pulverized fuel for locomotives (D)	1088
RATHBUN, EDWARD. Gas producer for bituminous fuel (D)	955
Reclamation of land in Louisiana	115
pumping plant, design and test of	
Refrigerating plant, losses in	736
REINICKER, NORMAN G. Design and operation of steam power plant (D).	712
Tests of a 30,000-kw. steam turbine (D)	684
Reuling, W. E. Commercial sampling and analysis of producer gas (D) .	975
REYNOLDS, HERBERT B. The Flow of Air and Steam through Orifices	799

	PAGE
RICKETTS, L. D. Waste-heat utilization (D)	648
Rice, irrigation pumps for	144
RIEGEL, S. S. Pulverized fuel for locomotives (D)	1096
RILEY, LEWIS A., 2d. Organizing for industrial preparedness (D)	65
ROBERTS, THOMAS N. Tests of a 30,000-kw. steam turbine (D)	684
ROBERTSON, I. W. Deviation of natural gas from Boyle's law (D)	319
Robinson, W. L. Pulverized fuel for locomotives (D)	1085
ROGERS, FRED E. Organizing for industrial preparedness (D)	60
Rogers, W. S. Cooperation of workman (D)	1221
Productive capacity and industrial property (D)	1310
Valuation of industrial properties (D).	1302
	1357
Ross, Alastair, obituary. Rousseau, E. H. Capacity and economy of multiple evaporators (D)	
ROUSSEAU, E. H. Capacity and economy of multiple evaporators (D)	109
RUGAN, HENRY FISLER, obituary	1358
Ruggles, William Barker, obituary	1359
Safety standards for cranes	1205
valves, marine	1105
steam	519
Salt-water evaporators	110
Sash, heat transmission through various types of	857
SCHALLER, Wm. F. Power-plant efficiency (D)	753
Standardization of power-plant operating costs (D)	596
Schedin, Per H., obituary	1359
Scheel, H. V. R. Productive capacity and industrial property (D)	1312
Seabury, Dwight. Heat transmission through sash (D)	876
Shaw, A. M. Low-lift pumping plants (D)	203
Shedd, Frank Edson, obituary	1359
SHELDON, ARTHUR N. Heat Transmission through Various Types of	1000
Sash	857
SHEPARD, R. B. JR. Industrial and public-utility valuation (D)	1282
Ships — see electric drive, naval vessels, U. S. Fleet, etc.	
SIMPKINSON, GARRETT W., obituary	1360
Sinclair, Angus. Pulverized fuel for locomotives (D)	1084
Slag electrode for autogenous welding	1147
SMART, CHARLES E. Organizing for industrial preparedness (D)	58
SMITH, ALBERT W. Tribute to John E. Sweet	1328
SMITH, C. B. Clasp brakes (D)	1018
SMITH, H. L. H. Tests of a 30,000-kw. steam turbine (D)	685
SMITH, HARRY F. Commercial sampling and analysis of producer gas	000
(D)	977
Gas producer for bituminous fuel (D)	955
SMITH, OBERLIN. Organizing for industrial preparedness (D)	56
Perpetual-inventory value and appraisal value (D)	1291
Smoke prevention	
Smoke prevention	140
activities in 1916	1
annual meeting, 1915	11

INDEX

	Pagi
Society affairs (continued):	
annual meeting, 1916.	449
biographies committee	20
boiler code committee	20
committee on filter standardization	20
committee on power tests	22
committee on refrigeration.	22
committee on sections	23
committee on standard flanges and pipe fittings	25
committee on student branches	26
committee on tolerances in screw thread fits	25
constitution and by-laws committee	17
correspondence with President Wilson	
council, annual report, 1916	4
employment work	28
Ericsson memorial	33
finance committee	10
Holmes memorial	34
house committee	16
increase of membership committee	21
industrial census	5
joint committees	28 - 34
library committee	16
meetings, January-June, 1916	35
September-December, 1916	445
meetings committee	10
sub-committees of	12
meetings of sections	35
membership committee	15
national service	5
nominating committee	18
prizes, committees	19
public relations committee	17
publication committee	14
research committee	17
special committees	19
spring meeting, 1916	12
New Orleans	44
standardization committee	18
standing committees, appointments	9
state directors, industrial census	6-8
sub-committee on protection of industrial workers14	, 1205
Specifications for pulverized fuel	1046
for wrought iron for chains	1166
Spontaneous ignition studied by means of photographic plates	841
Spring meeting, 1916	12, 44
STACY, ELMER NEILL, obituary	1361
Standard feeds for cutting metals	901

INDEX	1387

	PAGE
Standard measure for viscosity, need of	399
of measurement for natural gas	241
power-plant operating costs	587
rates of depreciation1289	1290
speeds for cutting metals	897
Standards, objections raised to	896
safety, for cranes	1205
Standardization of industrial management	1225
of machine tools	895
of overhead charges	593
of power-plant operating costs	581
STANTON, FRANKLIN McMillan, obituary	1361
Steam boiler of downflow type	1140
engine, uniflow	739
flow through orifices	799
generating by waste heat	599
locomotives, characteristics of	1021
power plants, design and operation of	687
safety valves	519
separator, large	674
turbines, cross-compound, efficiency tests of	655
marine, Curtis and Parsons	545 1362
STEPHENSON, THOMAS I., obituary	236
Storage of cotton	1081
of pulverized fuel	1001
Steam Turbine	5 879
Standardization of power-plant operating costs (D)	596
Straight-Line engine, history of	1324
STROUD, E. H. Pulverised fuel for locomotives (D)	1094
STUART, M. C. Proportioning of surface condensers (D)	485
SUB-COMMITTEE ON PROTECTION OF INDUSTRIAL WORKERS, Code of Safety	
Standards for Cranes	1205
Sugar-house evaporators	77
Superheater utilizing waste heat	650
SUPPES, MAX M., obituary	1363
Surface condensers, proportioning of	467
SWAIN, PHILIP W. The Commercial Sampling and Analysis of Producer Gas	961
SWASEY, AMBROSE, elected honorary member	4
SWEET, JOHN E., obituary	1364
tributes to	1321
TAIT, GODFREY M. S. Gas producer for bituminous fuel (D)	954
TALBOT, PAUL A. The Talbot Boiler	1117
Tar extractor for bituminous gas producer	923
-forming temperature in gas producer	936
tester, for use with producer gas	934

TAYLOR, GEORGE W. K., obituary	PAGE 1364
Telpher system, Port of New Orleans	212
Tests of air brakes	1005
Burden wrought iron	1172
condenser	672
drainage plants.	
efficiency of steam turbines.	655
flow of air and steam through orifices.	802
heat transmission through sash.	861
	1172
heat-treated chain cables	491
house-heating boilers	
natural-gas supply line	252
reclamation pumping plant	563
safety valves	528
sugar-house evaporators	86
Talbot boiler	1127
tar in producer gas	934
traction-engine motors.	998
waste-heat boilers	599
Textile-mill buildings, vibration in	879
THOMAS, JAMES W. Tests of a 30,000-kw. steam turbine (D)	684
Thomas meter, use in measuring natural gas24	
THOMPSON, C. B. Testing of house-heating boilers (D)	507
THOMPSON, DAVID, obituary	1365
THOMPSON, SANFORD E. Standardization in industrial management (D)	1225
THOMPSON, S. G. Clasp brakes (D)	1016
THURSTON, E. D. Flow of air and steam through orifices (D)	831
TORRANCE, KENNETH, obituary	1366
Traction engines using gas and oil power	995
TRUMP, CHARLES C. Low-lift pumping plants (D)	203
TRUMP, E. N. Power-plant efficiency (D)	752
Tube pumps	203
Turbines, steam, cross-compound	655
Curtis	545
Parsons	545
TUTTLE, MORTON C. Vibration in textile-mill buildings (D)	892
The state of the s	
UEHLING, EDWARD A. Power-plant efficiency (D)	749
Uniflow engine, advantages of	739
United States Fleet, development of	1157
	1157
Naval Stations, development of	1166
specifications for wrought iron for chain making	49
statistics of wars in.	49
U. S. S. Delaware, North Dakota, Utah, Arkansas, New York, Oklahoma,	
Nevada, Pennsylvania	544
Upron, G. B. Flow of air and steam through orifices (D)	834
UPTON, WILLIAM BAYLY, obituary	1366

INDEX	1389

	PAGE
Valuation, appraisal methods	1225
industrial	1247
of franchises	1263
of industrial methods	1297
of industrial properties	1297
public-utility	1247
Value, appraisal	1285
perpetual-inventory	1285
Valves, marine safety	1105
steam safety	519
VARNEY, FRANK HASTINGS, obituary	1367
VAUGHAN, H. H. Clasp brakes (D)	1016
Venturi meter used with impact tube	4. 777
tube for measuring compressed air	799
Vessel-unloading machinery, New Orleans	207
Vibration in textile-mill buildings	879
Viscosimeters	383
Viscosity of natural gas	979
measurement of	383
VON PHUL, WILLIAM. Mechanical Equipment Used in the Port of New	000
Orleans	207
VOORHEES, GARDNER T. Mechanical equipment at Port of New Orleans (D)	238
Deviation of natural gas from Boyle's law (D)	329
Deviation of natural gas from Doyle's law (D)	020
W	050
WALDO, LEONARD. Photographic studies of spontaneous ignition (D)	852
WALKER, P. F. Deviation of natural gas from Boyle's law (D)	327
Specific heats and viscosity of natural gas (D)	988
Standard measure for natural-gas supply (D)	282
Walsh, James F., obituary	1368
Wars, statistics of U. S.	49
Wardenburg, F. A. Design and operation of steam power plants (D)	713
WARMAN, WILLIAM A., obituary	1368
WARNER, D. K. Talbot boiler (D)	1134
WARNER, WORCESTER R. Tribute to John E. Sweet	1321
Waste heat, utilization for steam-generating purposes	599
-heat boilers	599
of fuel in power plants	717
Water flow through pipe orifices	331
Watson, Hubert Leigh, obituary	1368
Webb, Stuart W. Productive capacity and industrial property (D)	1314
WEBSTER, W. W. Heat Treatment of Wrought Iron Chain Cable	1159
WEED, R. W. Heat transmission through sash (D)	876
Welch, W. M. Standard measure for natural-gas supply (D)	280
Welding, autogenous, slag electrode for	1147
boiler joints, electric method of	1153
pencil-electrode method of	1141
Wellman S. T. Low-lift pumping plants (D)	204
Wells, Frank O. Organizing for industrial preparedness (D)	58

	PAGE
Werkspoor marine Diesel engines ¹	452
WEYMOUTH, THOMAS R. Deviation of natural gas from Boyle's law (D).	321
WHITTEMORE, DON JUAN, obituary	1369
Whittlesey, James T. Reclamation pumping plants (D)	577
Whittlesey, W. L. Accurate appraisal by short methods (D)	1242
WILCOX, H. M. Productive capacity and industrial property (D)	1311
WILDT, E. A. The Pencil Electrode Method of Welding for Boiler Joints	1141
WILLIAMS, J. H. Productive capacity and industrial property (D)	1316
WILLIAMSON, WILLIAM C., obituary	1370
WILLIAMSON, C. S., JR. Organizing for industrial preparedness (D)	63
Wilson, President, correspondence with the Society	12, 48
Window sash, heat transmission through	857
Wolf, R. B. Cooperation of workman (D)	1220
Productive capacity and industrial property (D)	1314
WOOD, HENRY A. WISE. Organizing for industrial preparedness (D)	59
Wood screw pumps, tests of	200
WOODBURY, CHARLES J. H., obituary	1370
WOOLSON, IRA H. Photographic studies of spontaneous ignition (D)	852
Vibration in textile-mill buildings (D)	890
WRIGHT, H. T. Organizing for industrial preparedness (D)	65
Wrought-iron chain cables, heat treatment of	1159
WYER, SAMUEL S. Deviation of Natural Gas from Boyle's Law	285
YARNALL, D. ROBERT. Organizing for industrial preparedness (D)	59
Young, C. D. Clasp brakes (D)	1016
Pulverized fuel for locomotives (D)	1087
Younger, John. Organizing for industrial preparedness (D)	58

¹ See The Journal, March 1917, p. 201.

OCT 8 1917

